AMENDMENTS IN THE CLAIMS:

(Currently Amended) A nitride semiconductor device comprising a p-type nitride semiconductor layer, an n-type nitride semiconductor layer, and an active layer interposed between the p-type nitride semiconductor layer and the n-type nitride semiconductor layer, a non-doped nitride semiconductor layer containing Al, and a non-doped GaN layer, wherein,

the p-type nitride semiconductor layer includes:

a first p-type nitride semiconductor layer containing Al and Mg; and a second p-type nitride semiconductor layer containing Mg,

the first p-type nitride semiconductor layer being located between the active layer and the second p-type nitride semiconductor layer, and

the second p-type nitride semiconductor layer having a greater band gap than a band gap of the first p-type nitride semiconductor layer.

wherein the first p-type nitride semiconductor layer is in contact with the second p-type nitride semiconductor layer.

the non-doped nitride semiconductor layer is located between the first p-type nitride semiconductor layer and the active layer, and is in contact with the first p-type nitride semiconductor layer.

the non-doped GaN layer is located between the non-doped nitride semiconductor layer and the active layer and is in contact with the non-doped nitride semiconductor layer, and

the active layer has a plurality of GalnN layers, and has no intentional doped impurity.

(Original) The nitride semiconductor device of claim 1, wherein the second p-type nitride semiconductor layer functions as a barrier layer for suppressing a carrier overflow from the active layer. (Withdrawn) The nitride semiconductor device of claim 1, wherein, the first p-type nitride semiconductor layer has an Al concentration of no less than 1×10²⁰cm⁻³ and no more than 2×10²¹cm⁻³: and

a region of the first p-type nitride semiconductor layer in which the Al concentration is no less than 1×10²⁰cm³ and no more than 2×10²¹cm³ has a thickness of 1 nm or more.

4. (Canceled)

- (Original) The nitride semiconductor device of claim 4, wherein the non-doped nitride semiconductor layer has a smaller band gap than a band gap of the second p-type nitride semiconductor layer.
- (Original) The nitride semiconductor device of claim 5, wherein the non-doped nitride semiconductor layer has a band gap equal to the band gap of the first p-type nitride semiconductor layer.
- (Withdrawn) The nitride semiconductor device of claim 4, wherein a total thickness of the non-doped nitride semiconductor layer and the first p-type nitride semiconductor layer is no less than 1 nm and no more than 50 nm.
- 8. (Withdrawn) The nitride semiconductor device of claim 7, wherein the second p-type nitride semiconductor layer has a thickness of no less than 5 nm and no more than 20 nm
- 9. (Withdrawn) The nitride semiconductor device of claim 8, wherein a region of the second p-type nitride semiconductor layer which has an Mg concentration of 8×10¹⁸cm⁻³ or less has a thickness of 1 nm or less.
 - 10. (Withdrawn) The nitride semiconductor device of claim 1, wherein, the p-type nitride semiconductor layer further includes a third p-type nitride

semiconductor layer having a smaller band gap than a band gap of the second p-type nitride semiconductor layer; and

the second p-type nitride semiconductor layer is located between the third p-type nitride semiconductor layer and the first p-type nitride semiconductor layer.

- 11. (Withdrawn) The nitride semiconductor device of claim 10, wherein the third p-type nitride semiconductor layer has a smaller band gap than the band gap of the first p-type nitride semiconductor layer.
- 12. (Withdrawn) The nitride semiconductor device of claim 10, wherein the third p-type nitride semiconductor layer functions as a cladding layer.
- 13. (Withdrawn) The nitride semiconductor device of claim 10, wherein at least one of the first p-type nitride semiconductor layer and the second p-type nitride semiconductor layer contains In.
- 14. (Withdrawn) The nitride semiconductor device of claim 13, wherein the second p-type nitride semiconductor layer has a greater In mole fraction than an In mole fraction of the first p-type nitride semiconductor layer.
- 15. (Currently Amended) A production method for a nitride semiconductor device including a p-type nitride semiconductor layer, an n-type nitride semiconductor layer, and an active layer interposed between the p-type nitride semiconductor layer and the n-type nitride semiconductor layer, a non-doped nitride semiconductor layer containing Al, and a non-doped GaN layer, wherein: the p-type nitride semiconductor layer includes a first p-type nitride semiconductor layer containing Al and Mg and a second p-type nitride semiconductor layer containing Mg; the first p-type nitride semiconductor layer; and the second p-type nitride semiconductor layer; and the second p-type nitride semiconductor layer; the production method comprising:

- a step of forming the n-type nitride semiconductor layer;
- a step of forming the active layer which has a plurality of GalnN layers, and has no intentional doped impurity:
 - a step of forming the non-doped GaN laver:
- a step of forming the non-doped nitride semiconductor layer on the non-doped GaN layer;
- a step of forming the first p-type nitride semiconductor layer containing Al and Mg on the non-doped nitride semiconductor layer by supplying both a source gas having Mg and a source gas having Al; and
- a step of forming the second p-type nitride semiconductor layer on the first p-type nitride semiconductor layer by supplying a source gas having Mg.
- 16. (Currently Amended) The production method of claim 15, further comprising, before the step of forming the first p-type nitride semiconductor layer, a wherein the step of forming the non-doped nitride semiconductor layer which contains Al is performed by supplying a source gas having Al without supplying any p-type impurities.
 - 17. (Withdrawn) The production method of claim 15, wherein,
- the first p-type nitride semiconductor layer has an Al concentration of no less than 1×10^{20} cm⁻³ and no more than 2×10^{21} cm⁻³; and
- a region of the first p-type nitride semiconductor layer in which the Al concentration is no less than 1×10²⁰cm³ and no more than 2×10²¹cm³ has a thickness of 1 nm or more.